

10/20/2006

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	62	(HT1080 or (human adj fibrosarcoma)) and (glutamine-synthetase or (glutamine adj synthetase))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:28
L2	32	L1 and @ad<="20020117"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:28
L3	60	(HT1080 or (human adj fibrosarcoma adj cell)) and (glutamine-synthetase or (glutamine adj synthetase))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:35
L4	32	L3 and @ad<="20020117"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:36
L5	1	((glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic)) with (fibrosarcoma or HT1080 or HL60 or lymphoblastoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:29
L6	1	((glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic)) same (fibrosarcoma or HT1080 or HL60 or lymphoblastoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:29
L7	2	((glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic)) and (fibrosarcoma or HT1080 or HL60 or lymphoblastoid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:29
L8	1575	((glutamine-auxotrophic or (glutamine adj auxotrophic)) adj cell) same human) or HT1080	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:33

EAST Search History

L9	1575	((((glutamine-auxotrophic or (glutamine adj auxotrophic)) adj cell) with human) or HT1080	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:33
L10	1	((((glutamine-auxotrophic or (glutamine adj auxotrophic)) adj cell) with human)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:33
L11	74	(HT1080 or (human adj fibrosarcoma adj cell) or (glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic)) and (glutamine-synthetase or (glutamine adj synthetase))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:41
L12	73	L11 and ((glutamine-free or (glutamine adj free)) (3n) (medium or media))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:43
L13	37	L12 and @ad<="20020117"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:43
L14	28	L13 and exogenous	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:37
L15	20	L13 and ((exogenous adj protein adj expression) or (protein adj expression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:43
L16	103	(HT1080 or (human adj fibrosarcoma adj cell) or (glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic) or (glutamine adj independent) or (R223 or CCL121 or HT1080-R223 OR ACC-315)) and (glutamine-synthetase or (glutamine adj synthetase))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:00

EAST Search History

L17	102	L16 and ((glutamine-free or (glutamine adj free)) (3n) (medium or media))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:48
L18	49	L17 and @ad<="20020117"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:52
L19	22	L18 and ((exogenous adj protein adj expression) or (protein adj expression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:52
L21	17	L19 and (cotransfect\$\$ or co-transfect\$\$ or (double adj transfect\$\$) or cotransforma\$\$ or co-transforma\$\$ or (double adj transforma\$\$))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:51
L22	19	L16 and ((glutamine-free or (glutamine adj free)) with (medium or media))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:52
L23	14	L22 and @ad<="20020117"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:49
L24	1	L23 and ((exogenous adj protein adj expression) or (protein adj expression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:49
L25	49	L16 and (cotransfect\$\$ or co-transfect\$\$ or (double adj transfect\$\$) or cotransforma\$\$ or co-transforma\$\$ or (double adj transforma\$\$))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:01
L26	28	L25 and @ad<="20020117"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:52
L27	17	L26 and ((exogenous adj protein adj expression) or (protein adj expression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:01

EAST Search History

L28	0	L27 and ((glutamine-free or (glutamine adj free)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:00
L29	17	L27 and human	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:53
L30	17	L27 and (Epo or erythropoietin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:58
L31	2	"5891693".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 10:58
L32	1	L31 and ((glutamine-free or (glutamine adj free)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:09
L33	1	L32 and ((HT1080 or (human adj fibrosarcoma adj cell) or (glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic) or (glutamine adj independent) or (R223 or CCL121 or HT1080-R223 OR ACC-315)) and (glutamine-synthetase or (glutamine adj synthetase)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:09
L34	0	L33 and (cotransfect\$\$ or co-transfect\$\$ or (double adj transfect\$\$) or cotransforma\$\$ or co-transforma\$\$ or (double adj transforma\$\$))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:01
L35	0	L34 and ((exogenous adj protein adj expression) or (protein adj expression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:01

EAST Search History

L36	3	(N-glycan adj charge) and (Epo or erythropoietin) and sialylation and (trisialo or tetrasialo or pentasialo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:08
L37	1	L36 and ((glutamine-free or (glutamine adj free)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:09
L38	1	L37 and ((HT1080 or (human adj fibrosarcoma adj cell) or (glutamine-auxotrophic) or (glutamine adj auxotrophic) or (glutamine-auxotroph) or (glutamine adj auxotroph) or (glutamine adj auxotrophic) or (glutamine adj independent) or (R223 or CCL121 or HT1080-R223 OR ACC-315)) and (glutamine-synthetase or (glutamine adj synthetase)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/20 11:09

Dialog 10/501,777
10/20/2006 LLM

? S (N-GLYCAN (w) CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND GLYCOSYL??
813 N-GLYCAN
930184 CHARGE
0 N-GLYCAN (W) CHARGE
31759 EPO
110239 ERYTHROPOIETIN
9163 SIALYLATION
65167 GLYCOSYL??
S18 0 S (N-GLYCAN (W) CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND
GLYCOSYL??

? d s

Set	Items	Description
S1	192	S (HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))
S2	17	S S1 AND ((GLUTAMINE-FREE OR (GLUTAMINE (W) FREE)) (3N) (MEDIUM OR MEDIA))
S3	0	S S2 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR COTRANSFORMA?? OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))
S4	0	S S1 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR COTRANSFORMA?? OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))
S5	0	S S2 AND ((EXOGENOUS (W) PROTEIN (W) EXPRESSION) OR (PROTEIN (W) EXPRESSION))
S6	17	S S2
S7	8	RD (unique items)
S8	8	S S7 NOT PD<020117
S9	189	S ((HUMAN 5N ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))
S10	4384	S ((HUMAN (S) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (CCL121 OR HT1080-R223 OR ACC-315))))))
S11	17	S S10 AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))
S12	14	S S11 AND ((GLUTAMINE-FREE OR (GLUTAMINE (W) FREE)))
S13	0	S S12 AND (EPO OR ERYTHROPOIETIN)
S14	0	S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND (TRISIALO OR TETRASIALO OR PENTASIALO)
S15	0	S (N-GLYCAN (W) CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND (TRISIALO OR TETRASIALO OR PENTASIALO)
S16	0	S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION
S17	0	S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND GLYCOSYL??
S18	0	S (N-GLYCAN (W) CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND GLYCOSYL??

?

[File 185] **Zoological Record Online(R)** 1978-2006/Nov
(c) 2006 The Thomson Corp. All rights reserved.

[File 357] **Derwent Biotech Res.** _1982-2006/Oct W4
(c) 2006 The Thomson Corp. All rights reserved.

[File 369] **New Scientist** 1994-2006/Aug W3
(c) 2006 Reed Business Information Ltd. All rights reserved.

[File 370] **Science** 1996-1999/Jul W3
(c) 1999 AAAS. All rights reserved.

**File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 391] **Beilstein Reactions** 2006/Q3
(c) 2006 Beilstein GmbH. All rights reserved.

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec
(c) 2006 The Thomson Corp. All rights reserved.

[File 467] **ExtraMED(tm)** 2000/Dec
(c) 2001 Informania Ltd. All rights reserved.

? s (HT1080 or (human (w) fibrosarcoma (w) cell) or (glutamine-auxotrophic) or
(glutamine-auxotroph) or (glutamine (w) auxotroph) or (glutamine (w) auxotrophic) or
(glutamine (w) independen??) or (R223 or CCL121 or HT1080-R223 OR ACC-315)) and
(glutamine-synthetase or (glutamine (w) synthetase))

Processing

Processing

Processing

Processing

Processing

>>>W: "R223" does not exist

5226	HT1080
24876019	HUMAN
44609	FIBROSARCOMA
14461462	CELL
1176	HUMAN (W) FIBROSARCOMA (W) CELL
0	GLUTAMINE-AUXOTROPHIC
0	GLUTAMINE-AUXOTROPH
169367	GLUTAMINE
6300	AUXOTROPH
87	GLUTAMINE (W) AUXOTROPH
169367	GLUTAMINE
14155	AUXOTROPHIC
76	GLUTAMINE (W) AUXOTROPHIC
169367	GLUTAMINE
2224130	INDEPENDEN??
101	GLUTAMINE (W) INDEPENDEN??
0	R223
5	CCL121
0	HT1080-R223

0 ACC-315
 3459 GLUTAMINE-SYNTHETASE
 169367 GLUTAMINE
 205017 SYNTHETASE
 35164 GLUTAMINE(W)SYNTHETASE
 S1 192 S (HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC)
 OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR
 (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)) AND
 (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))
 ? s.s1 and ((glutamine-free or (glutamine (w) free)) (3n) (medium or media))
 192 S1
 16 GLUTAMINE-FREE
 169367 GLUTAMINE
 3352407 FREE
 604 GLUTAMINE(W)FREE
 2107407 MEDIUM
 1258703 MEDIA
 328 (GLUTAMINE-FREE OR GLUTAMINE(W)FREE).(3N) (MEDIUM OR MEDIA)
 S2 17 S S1 AND ((GLUTAMINE-FREE OR (GLUTAMINE (W) FREE)) (3N) (MEDIUM OR MEDIA))
 ? s s2 and (cotransfect?? or co-transfect?? or (double (w) transfect??) or cotransforma??
 or co-transforma?? or (double (w) transforma??))
 17 S2
 14169 COTRANSFECT??
 31 CO-TRANSFECT??
 1938125 DOUBLE
 321177 TRANSFECT??
 298 DOUBLE(W)TRANSFECT??
 51 COTRANSFORMA??
 0 CO-TRANSFORMA??
 1938125 DOUBLE
 36441 TRANSFORMA??
 96 DOUBLE(W)TRANSFORMA??
 S3 0 S S2 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR
 COTRANSFORMA?? OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))
 ? S S1 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR COTRANSFORMA??
 OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))
 192 S1
 14169 COTRANSFECT??
 31 CO-TRANSFECT??
 1938125 DOUBLE
 321177 TRANSFECT??
 298 DOUBLE(W)TRANSFECT??
 51 COTRANSFORMA??
 0 CO-TRANSFORMA??
 1938125 DOUBLE
 36441 TRANSFORMA??
 96 DOUBLE(W)TRANSFORMA??
 S4 0 S S1 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR
 COTRANSFORMA?? OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))
 ?
 ? s s2 and ((exogenous (w) protein (w) expression) or (protein.(w) expression))
 Processing
 Processing
 Processing
 Processing
 Processing
 17 S2

440727 EXOGENOUS
9545637 PROTEIN
5792335 EXPRESSION
42 EXOGENOUS (W) PROTEIN (W) EXPRESSION
9545637 PROTEIN
5792335 EXPRESSION
458719 PROTEIN (W) EXPRESSION
S5 0 S S2 AND ((EXOGENOUS (W) PROTEIN (W) EXPRESSION) OR (PROTEIN (W)
EXPRESSION))

? s s2
S6 17 S S2

? rd
>>>W: Duplicate detection is not supported for File 391.
Records from unsupported files will be retained in the RD set.
S7 8 RD (UNIQUE ITEMS)

? s s7 not pd<020117
Processing
Processing
Processing
>>>W: File 34 processing for PD= : PD=020117
started at PD=15 stopped at PD=20011011
One or more prefixes are unsupported
or undefined in one or more files.
File 45 processing for PD= : PD=020117
started at PD=19840000 stopped at PD=20010830
File 98 processing for PD= : PD=020117
started at PD=19790400 stopped at PD=19910809
File 143 processing for PD= : PD=020117
started at PD=DEC.1200 stopped at PD=19950526
File 144 processing for PD= : PD=020117
started at PD=18019 stopped at PD=198311
File 357 processing for PD= : PD=020117
started at PD=19011009 stopped at PD=19881204
8 S7
26857191 PD<020117
S8 8 S S7 NOT PD<020117

? t s8/medium/all

8/3/1 (Item 1 from file: 5) [Links](#)

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Biosis Previews(R)

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0009760384 Biosis No.: 199598228217

Genetic engineering of hybridoma glutamine metabolism

Author: Bell Sarah L; Bebbington Chris; Scott Michelle F; Wardell J Noel; Spier Raymond E; Bushell Michael E;
Sanders Peter G (Reprint)

Author Address: Mol. Microbiol. Group, Sch. Biol. Sci., Univ. Surrey, Guildford GU2 5XH, UK **UK

Journal: Enzyme and Microbial Technology 17 (2): p 98-106 1995,1995

ISSN: 0141-0229

Document Type: Article

Record Type: Abstract

Language: English

8/3/2 (Item 2 from file: 5) [Links](#)

Fulltext available through: [John Wiley and Sons](#) [USPTO Full Text Retrieval Options](#) [SCIENCEDIRECT](#)
Biosis Previews(R)

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0007210592 Biosis No.: 199089128483

**METABOLIC BASIS FOR DIFFERENTIAL GLUTAMINE REQUIREMENTS OF HUMAN LEUKEMIA
CELL LINES**

Author: KITO T (Reprint); KUBOTA M; TAKIMOTO T; HASHIMOTO H; SHIMIZU T; SANO H; AKIYAMA
Y; MIKAWA H

Author Address: DEP PEDIATRICS, FAC MED, KYOTO UNIV, KYOTO 606, JAPAN**JAPAN

Journal: Journal of Cellular Physiology 143 (1): p 150-153 1990

ISSN: 0021-9541

Document Type: Article

Record Type: Abstract

Language: ENGLISH

8/3/3 (Item 3 from file: 5) [Links](#)

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0004339960 Biosis No.: 198478075367

VARIANTS INDUCIBLE FOR GLUTAMINE SYNTHETASE IN V-79-56 CELLS

Author: HARRIS M (Reprint)

Author Address: DEP ZOOL, UNIV CALIF, BERKELEY, CALIF 94720, USA**USA

Journal: Somatic Cell and Molecular Genetics 10 (3): p 275-282 1984

ISSN: 0740-7750

Document Type: Article

Record Type: Abstract

Language: ENGLISH

8/3/5 (Item 1 from file: 357) [Links](#)

Derwent Biotech Res.

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0370220 DBA Accession No.: 2005-15926 PATENT

New transfected glutamine-auxotrophic human cells capable of growing in a glutamine-free medium, useful for producing proteins that may be utilized in e.g. therapeutic or diagnostic applications glutamine gene transfer and expression in human cell for recombinant protein production and disease therapy and diagnosis

Author: BIRCH J R; BORASTON R C; SHAW M

Patent Assignee: BIRCH J R; BORASTON R C; SHAW M 2005

Patent Number: US 20050084928 **Patent Date:** 20050421 **WPI Accession No.:** 2005-321971 (200533)

Priority Application Number: EP 200227189 **Application Date:** 20021205

National Application Number: US 501777 **Application Date:** 20040719

Language: English

8/3/6 (Item 2 from file: 357) Links

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0132794 DBA Accession No.: 92-05286

Genetic engineering of cellular physiology

- mouse hybridoma cell culture transfection with glutamine- synthetase gene; application to growth on glutamine- free culture medium (conference paper)

Author: Bell S L; Bebbington C R; Bushell M E; +Sanders P G; Scott M F; Spier R E

Corporate Affiliate: Celltech

Corporate Source: Department of Microbiology, University of Surrey, Guildford, GU2 5XH, UK.

Journal: Prod.Biol.Anim.Cells Cult. (ESCAT 10 Meet., 304-08) 1991

CODEN: 9999Z

Language: English

8/3/7 (Item 3 from file: 357) Links

Derwent Biotech Res.

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0122038 DBA Accession No.: 91-09680 PATENT

Heterologous gene amplification in eukaryote host cell culture

- glutamine auxotroph cell culture in glutamine- free medium; heterologous gene dosage

Patent Assignee: Celltech 1991

Patent Number: GB 2237288 Patent Date: 910501 WPI Accession No.: 91-127068 (9118)

Priority Application Number: GB 8923522 Application Date: 891018

National Application Number: GB 8923522 Application Date: 891018

Language: English

8/3/8 (Item 4 from file: 357) Links

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0097978 DBA Accession No.: 90-00669 PATENT

Transformation of lymphoid cell lines

- glutamine-synthetase selectable marker gene cloning and expression in mammal cell culture; vector construction; potential application in chimeric antibody construction

Patent Assignee: Celltech 1989

Patent Number: EP 338841 **Patent Date:** 891025 **WPI Accession No.:** 89-311268 (8943)

Priority Application Number: GB 889129 **Application Date:** 880418

National Application Number: EP 89303964 **Application Date:** 890418

Language: English

? S ((human 5n ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

>>>W: "R223" does not exist

```

      0      HUMAN 5N (( HT1080
24876019    HUMAN
      44609    FIBROSARCOMA
      0      CELL)
      0      HUMAN(W) FIBROSARCOMA(W) CELL)
      0      GLUTAMINE-AUXOTROPHIC
      0      GLUTAMINE-AUXOTROPH
169367      GLUTAMINE
      6300      AUXOTROPH
      87      GLUTAMINE(W) AUXOTROPH
169367      GLUTAMINE
      14155      AUXOTROPHIC
      76      GLUTAMINE(W) AUXOTROPHIC
169367      GLUTAMINE
2224130      INDEPENDEN??
      101      GLUTAMINE(W) INDEPENDEN??
      0      R223
      5      CCL121
      0      HT1080-R223
      0      ACC-315
      3459      GLUTAMINE-SYNTHETASE
169367      GLUTAMINE
205017      SYNTHETASE
      35164      GLUTAMINE(W) SYNTHETASE

```

S9 189 S ((HUMAN 5N ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

?
 ? S ((HUMAN (5N) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

>>>W: "R223" does not exist

Unmatched parentheses

>>>E: There is no result

? S ((HUMAN (5N) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

>>>W: "R223" does not exist

Unmatched parentheses

>>>E: There is no result

? S ((HUMAN (s) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (CCL121 OR HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

>>>W: Unmatched parentheses

>>>E: There is no result

? S ((HUMAN (s) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR

(GLUTAMINE (W) INDEPENDEN??) OR (CCL121 OR HT1080-R223 OR ACC-315))))

Processing

Processing

Processing

Processing

Processing

Processing

24876019 HUMAN
5226 HT1080
24876019 HUMAN
44609 FIBROSARCOMA
14461462 CELL
1176 HUMAN (W) FIBROSARCOMA (W) CELL
0 GLUTAMINE-AUXOTROPHIC
0 GLUTAMINE-AUXOTROPH
169367 GLUTAMINE
6300 AUXOTROPH
87 GLUTAMINE (W) AUXOTROPH
169367 GLUTAMINE
14155 AUXOTROPHIC
76 GLUTAMINE (W) AUXOTROPHIC
169367 GLUTAMINE
2224130 INDEPENDEN??
101 GLUTAMINE (W) INDEPENDEN??
5 CCL121
0 HT1080-R223
0 ACC-315

S10 4384 S ((HUMAN (S) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR
(GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR
(GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (CCL121 OR HT1080-R223 OR
ACC-315))))

? s s10 AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

4384 S10
3459 GLUTAMINE-SYNTHETASE
169367 GLUTAMINE
205017 SYNTHETASE
35164 GLUTAMINE (W) SYNTHETASE

S11 17 S S10 AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

?

? d s

Set Items Description

S1 192 S (HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR (GLUTAMINE-AUXOTROPHIC)
OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPHIC) OR
(GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR HT1080-R223 OR ACC-315)) AND
(GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

S2 17 S S1 AND ((GLUTAMINE-FREE OR (GLUTAMINE (W) FREE)) (3N) (MEDIUM OR MEDIA))

S3 0 S S2 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR
COTRANSFORMA?? OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))

S4 0 S S1 AND (COTRANSFECT?? OR CO-TRANSFECT?? OR (DOUBLE (W) TRANSFECT??) OR
COTRANSFORMA?? OR CO-TRANSFORMA?? OR (DOUBLE (W) TRANSFORMA??))

S5 0 S S2 AND ((EXOGENOUS (W) PROTEIN (W) EXPRESSION) OR (PROTEIN (W)
EXPRESSION))

S6 17 S S2

S7 8 RD (unique items)

S8 8 S S7 NOT PD<020117

S9 189 S ((HUMAN 5N ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR
(GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR
(GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (R223 OR CCL121 OR
HT1080-R223 OR ACC-315)))) AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))

S10 4384 S ((HUMAN (S) ((HT1080 OR (HUMAN (W) FIBROSARCOMA (W) CELL) OR
 (GLUTAMINE-AUXOTROPHIC) OR (GLUTAMINE-AUXOTROPH) OR (GLUTAMINE (W) AUXOTROPH) OR
 (GLUTAMINE (W) AUXOTROPHIC) OR (GLUTAMINE (W) INDEPENDEN??) OR (CCL121 OR HT1080-R223 OR
 ACC-315))))))
 S11 17 S S10 AND (GLUTAMINE-SYNTHETASE OR (GLUTAMINE (W) SYNTHETASE))
 ? s s11 and ((glutamine-free or (glutamine (w) free)))
 17 S11
 16 GLUTAMINE-FREE
 169367 GLUTAMINE
 3352407 FREE
 604 GLUTAMINE(W)FREE
 S12 14 S S11 AND ((GLUTAMINE-FREE OR (GLUTAMINE (W) FREE)))
 ? s s12 and (Epo or erythropoietin)
 14 S12
 31759 EPO
 110239 ERYTHROPOIETIN
 S13 0 S S12 AND (EPO OR ERYTHROPOIETIN)
 ? s (N-glycan adj charge) and (Epo or erythropoietin) and sialylation and (trisialo or
 tetrasialo or pentasialo)
 0 N-GLYCAN ADJ CHARGE
 31759 EPO
 110239 ERYTHROPOIETIN
 9163 SIALYLATION
 206 TRISIALO
 117 TETRASIALO
 39 PENTASIALO
 S14 0 S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND
 (TRISIALO OR TETRASIALO OR PENTASIALO)
 ? S (N-GLYCAN (w) CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND (TRISIALO OR
 TETRASIALO OR PENTASIALO)
 813 N-GLYCAN
 930184 CHARGE
 0 N-GLYCAN(W)CHARGE
 31759 EPO
 110239 ERYTHROPOIETIN
 9163 SIALYLATION
 206 TRISIALO
 117 TETRASIALO
 39 PENTASIALO
 S15 0 S (N-GLYCAN (W) CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND
 (TRISIALO OR TETRASIALO OR PENTASIALO)
 ? S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION
 0 N-GLYCAN ADJ CHARGE
 31759 EPO
 110239 ERYTHROPOIETIN
 9163 SIALYLATION
 S16 0 S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION
 ? S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND glycosyl??
 0 N-GLYCAN ADJ CHARGE
 31759 EPO
 110239 ERYTHROPOIETIN
 9163 SIALYLATION
 65167 GLYCOSYL??
 S17 0 S (N-GLYCAN ADJ CHARGE) AND (EPO OR ERYTHROPOIETIN) AND SIALYLATION AND
 GLYCOSYL??